

PCT

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/502,279**DATE: 07/30/2004

TIME: 09:32:53

```
3 <110> APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
      4
              Hideki ENDOH
      5
              Ryosuke NAKANO
      6
              Eiji KUROSAKI
      7
              Miyuki KATO
      8
              Hiroyuki YOKOTA
              Kazunori INABE
     11 <120> TITLE OF INVENTION: METHOD FOR SCREENING A DRUG AMELIORATING INSULIN RESISTANCE
     13 <130> FILE REFERENCE: Q82704
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/502,279
C--> 15 <141> CURRENT FILING DATE: 2004-07-23
     15 <150> PRIOR APPLICATION NUMBER: JP 2002-013721
     16 <151> PRIOR FILING DATE: 2002-01-23
     18 <150> PRIOR APPLICATION NUMBER: JP 2002-257703
     19 <151> PRIOR FILING DATE: 2002-09-03
     21 <160> NUMBER OF SEQ ID NOS: 28
     23 <170> SOFTWARE: PatentIn version 3.1
     25 <210> SEQ ID NO: 1
     26 <211> LENGTH: 1518
     27 <212> TYPE: DNA
     28 <213> ORGANISM: Homo sapiens
     30 <220> FEATURE:
     31 <221> NAME/KEY: CDS
     32 <222> LOCATION: (1)..(1518)
     33 <223> OTHER INFORMATION:
W--> 36 <400> 1
     37 atg ggt gaa act ctg gga gat tct cct att gac cca gaa agc gat tcc
                                                                                48
     38 Met Gly Glu Thr Leu Gly Asp Ser Pro Ile Asp Pro Glu Ser Asp Ser
                                             10
     41 ttc act gat aca ctg tct gca aac ata tca caa gaa atg acc atg gtt
                                                                                96
     42 Phe Thr Asp Thr Leu Ser Ala Asn Ile Ser Gln Glu Met Thr Met Val
     43
                    20
                                        25
     45 gac aca gag atg cca ttc tgg ccc acc aac ttt ggg atc agc tcc gtg
                                                                               144
     46 Asp Thr Glu Met Pro Phe Trp Pro Thr Asn Phe Gly Ile Ser Ser Val
                                    40
     49 gat ete tee gta atg gaa gae eae tee eae tee ttt gat ate aag eee
                                                                               192
     50 Asp Leu Ser Val Met Glu Asp His Ser His Ser Phe Asp Ile Lys Pro
                                55
     53 ttc act act gtt gac ttc tcc agc att tct act cca cat tac gaa gac
                                                                               240
     54 Phe Thr Thr Val Asp Phe Ser Ser Ile Ser Thr Pro His Tyr Glu Asp
     55 65
                            70
                                                 75
     57 att cca ttc aca aga aca gat cca gtg gtt gca gat tac aag tat gac
                                                                               288
     58 Ile Pro Phe Thr Arg Thr Asp Pro Val Val Ala Asp Tyr Lys Tyr Asp
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/502,279

DATE: 07/30/2004 TIME: 09:32:53

59					85					90					95		
61	ctg	aaa	ctt	caa	gag	tac	caa	agt	gca	atc	aaa	gtg	gag	cct	gca	tct	336
62	Leu	Lys	Leu	Gln	Glu	Tyr	Gln	Ser	Ala	Ile	Lys	Val	Glu	Pro	Ala	Ser	
63				100					105					110			
65	cca	cct	tat	tat	tct	gag	aag	act	cag	ctc	tac	aat	aag	cct	cat	gaa	384
66	Pro	Pro	Tyr	Tyr	Ser	Glu	Lys	Thr	Gln	Leu	Tyr	Asn	Lys	Pro	His	Glu	
67			115					120					125				
	gag																432
70	Glu	Pro	Ser	Asn	Ser	Leu	Met	Ala	Ile	Glu	Cys	Arg	Val	Cys	Gly	Asp	
71		130					135					140					
	aaa	_							_		_	_	_		_	_	480
	Lys	Ala	Ser	Gly	Phe		Tyr	Gly	Val	His	Ala	Cys	Glu	Gly	Cys	Lys	
	145					150					155					160	
	ggt																528
	Gly	Phe	Phe	Arg		Thr	Ile	Arg	Leu		Leu	Ile	Tyr	Asp	Arg	Cys	
79					165					170					175		
	gat			_						_	_	•		_	_		576
	Asp	Leu	Asn	_	Arg	Ile	His	Lys	_	Ser	Arg	Asn	Lys	_	Gln	Tyr	
83				180					185					190			
	tgt																624
	Cys	Arg		Gln	Lys	Cys	Leu		Val	Gly	Met	Ser		Asn	Ala	Ile	
87			195					200					205				
	agg																672
	Arg		GIY	Arg	мет	Pro		Ala	GIU	Lys	GIU	_	Leu	Leu	Ala	GIU	
91		210					215		4.			220					700
	atc																720
	Ile	ser	ser	Asp	тте	_	GIN	ьeu	Asn	Pro		ser	Ala	Asp	ьeu	_	
	225	a+ ~	~~~			230		~~~			235					240	7.60
	gcc Ala																768
99	AIa	пеп	Ата	пуъ	245	пеп	TAT	Asp	ser	250	116	пуъ	ser	PILE	255	ьеи	
	1 acc	. aaa	ם מכב			r acc	י מככ	, ato	, ttc				T 20:	a a c :		aaa	816
																Lys	010
10		. <i></i> , .		260		• •••=	,		265		- 0-1	, <u> </u>		270	_	, 1,5	
		a cca	a tto			tat	. gad	ato			t tta	ato	ato			gat	864
																Asp	001
10			275			1-		280					28!	-		F	
		ato			c aaa	a cac	ato			cto	r cac	a gad			c aaa	gag	912
																Glu	
	1 -		_		_										•		
11	3 gtg													ato	g gac	act	960
																Ala	
	5 305			_		310		•	•		315	-				320	
11	7 gtd	g cad	g gad	g ato	aca	a gad	tat	ged	c aaa	age	att	cct	ggt	ttt	gta	aat	1008
																Asn	
11					325		_		_	330			-		335		
12	1 ctt	gad	tte	g aac	gad	caa	gta	act	cto	cto	c aaa	a tat	gga	gto	cac	gag	1056
																Glu	
12	3			340)				345	5	=	-	_	350)		

RAW SEQUENCE LISTING DATE: 07/30/2004 PATENT APPLICATION: US/10/502,279 TIME: 09:32:53

125	atc	att	tac	aca	atg	ctg	gcc	tcc	ttg	atg	aat	aaa	gat	999	gtt	ctc	1104
	Ile							Ser									
127			355					360					365				
	ata																1152
	Ile		GIU.	Gly	GIn	GIY			Thr	Arg	GIu		Leu	Lys	Ser	Leu	
131	003	370	cat	+++	aat	asa.	375			000	224	380	asa.	+++	aat	ata	1200
	cga Arg	-				_		_			_				_		1200
	385	Буб	FIO	FIIC	Gry	390	FIIC	Mec	Giu	FIO	395	FIIE	GIU	FIIC	Ата	400	
	aag	ttc	aat	gca	cta		tta	gat	gac	agc		tta	gca	ata	ttt		1248
	Lys																
139	•				405			•	-	410	•				415		
141	gct	gtc	att	att	ctc	agt	gga	gac	cgc	cca	ggt	ttg	ctg	aat	gtg	aag	1296
142	Ala	Val	Ile	Ile	Leu	Ser	Gly	Asp	Arg	Pro	Gly	Leu	Leu	Asn	Val	Lys	
143				420					425					430			
	CCC																1344
	Pro	Ile		Asp	Ile	Gln	Asp		Leu	Leu	Gln	Ala		Glu	Leu	Gln	
147			435					440					445				
	ctg																1392
150	Leu	ьуs 450	Leu	Asn	HIS	Pro	455	ser	ser	Gin	ьeu	460	Ala	гуѕ	ьeu	Leu	
	cag		ato	aca	aac	ctc		cad	att	atc	aca		cac	ata	cac	cta	1440
	Gln		_		-		_	_		_	_	_			_		1440
	465	- 3 ×			7100	470	****9	0111	110	vai	475	OIU	*****	Vul	0111	480	
	ctg	caq	ata	atc	aaq		acq	qaq	aca	qac		aqt	ctt	cac	cca		1488
	Leu																
159					485	-				490					495		
161	ctg	cag	gag	atc	tac	aag	gac	ttg	tac	tag							1518
162	Leu	Gln	Glu	Ile	Tyr	Lys	Asp	Leu	Tyr								
163				500					505								
	<210																
	<21:				05												
	<212				TToma			_									
	<213 <400) sap) Tem	j									
	Met					Glv	Asp	Ser	Pro	Tle	Asp	Pro	Glu	Ser	Asn	Ser	
174		017	014		5	0 -7	1101	001		10	1100	110	014	001	15	DCI	
	Phe	Thr	Asp	Thr	_	Ser	Ala	Asn	Ile		Gln	Glu	Met	Thr		Val	
178			_	20					25					30			
181	Asp	Thr	Glu	Met	Pro	Phe	Trp	Pro		Asn	Phe	Gly	Ile	Ser	Ser	Val	
182			35					40					45				
185	Asp	Leu	Ser	Val	Met	Glu	Asp	His	Ser	His	Ser	Phe	Asp	Ile	Lys	Pro	
186		50					55					60					
	Phe	Thr	Thr	Val	Asp		Ser	Ser	Ile	Ser		Pro	His	Tyr	Glu		
190		_	_,		_	70	_				75	_	_	_	_	80	
	Ile	Pro	Phe	Thr		Thr	Asp	Pro	Val		Ala	Asp	Tyr	ГЛS		Asp	
194	T	T	T	01	85		~ 1	0	7.7 -	90	*	**- *	a 1	D===	95 31-	0	
	Leu	гуѕ	ьeu		GIU	Tyr	GIN	ser		тте	гля	vaı	GIU		ΑΙα	ser	
198				100					105					110			

RAW SEQUENCE LISTING DATE: 07/30/2004
PATENT APPLICATION: US/10/502,279 TIME: 09:32:53

201	Pro	Pro	Tvr	Tyr	Ser	Glu	Lvs	Thr	Gln	Leu	Tvr	Asn	Lvs	Pro	His	Glu
202			115	-1-			-1-	120			-1-		125			
	Glu	Pro		Asn	Ser	Leu	Met		Ile	Glu	Cvs	Ara		Cvs	Glv	asp
206		130					135					140		4	-	_
209	Lys	Ala	Ser	Gly	Phe	His	Tyr	Gly	Val	His	Ala	Cys	Glu	Gly	Cys	Lys
	145			-		150	-	-			155	-		-	•	160
213	Gly	Phe	Phe	Arg	Arg	Thr	Ile	Arg	Leu	Lys	Leu	Ile	Tyr	Asp	Arg	Cys
214					165					170			_		175	
217	Asp	Leu	Asn	Cys	Arg	lle	His	Lys	Lys	Ser	Arg	Asn	Lys	Cys	Gln	Tyr
218				180					185					190		
221	Cys	Arg	Phe	Gln	Lys	Cys	Leu	Ala	Val	Gly	Met	Ser	His	Asn	Ala	Ile
222			195		•			200					205			
	Arg	Phe	Gly	Arg	Met	Pro	Gln	Ala	Glu	Lys	Glu	_	Leu	Leu	Ala	Glu
226	_	210			_		215				_	220				
			Ser	Asp	Ile	_	Gln	Leu	Asn	Pro		Ser	Ala	Asp	Leu	_
	225			_	'	230	_	_	_	_	235	_	_		_	240
	Ala	Leu	Ala	Lys		Leu	Tyr	Asp	Ser	_	Ile	Lys	Ser	Phe		Leu
234	m1	T	77.	T	245	3	37-	-1 -	T	250	~1	T	m1	m1	255	· -
	Thr	ьуѕ	АТА	Lys	Ата	Arg	Ата	тте		Thr	GIY	ьуs	Thr		Asp	ьуѕ
238	802	Dro	Dho	260 Val	т1.	Mars.	7 an	Mot	265	602	T 011	Mot	Mot	270	C1,,	7.00
241	Ser	PIO	275	vai	116	ıyı	Asp	280	ASII	ser	ьеи	Met	285	GIY	Giu	ASD
	T.v.c	Tle		Phe	Lve	Hic	Tle		Dro	T. - 211	Gln	Glu		Sar	Larg	Glu
246	шу	290	шys	1110	цуз	1113	295	1111	110	шси	GIII	300	OIII	DCI	цуз	Gru
	Val		Ile	Arg	Ile	Phe		Glv	Cvs	Gln	Phe		Ser	Val	Glu	Ala
	305			5		310		1	-1-		315	5				320
		Gln	Glu	Ile	Thr		Tyr	Ala	Lys	Ser		Pro	Gly	Phe	Val	Asn
254					325		•		•	330			•		335	
257	Leu	Asp	Leu	Asn	Asp	Gln	Val	Thr	Leu	Leu	Lys	Tyr	Gly	Val	His	Glu
258				340					345					350		
261	Ile	Ile	Tyr	Thr	Met	Leu	Ala	Ser	Leu	Met	Asn	Lys	Asp	Gly	Val	Leu
262			355					360					365			
265	Ile	Ser	Glu	Gly	Gln	Gly		Met	Thr	Arg	Glu		Leu	Lys	Ser	Leu
266	_	370	_			_	375				_	380				-
		Lys	Pro	Phe	Gly		Phe	Met	Glu	Pro		Phe	Glu	Phe	Ala	
	385	5 1	•		•	390	_	_	•	.	395			-1.	5 1	400
	гаг	Pne	ASI	Ala		GIU	ьeu	Asp	Asp		Asp	ьeu	Ala	TTE		ше
274	ת דת	17 a T	т1.	тіс	405	602	C1	7 an	7~~	410	C1	T 011	T 011	7 an	415	Tara
278	Ата			Ile 420		ser	GIY	_	425		GIY	Leu		430	vai	пур
	Pro			Asp		Gln	λen				Gln	Δla			T.011	Gln
282	110	110	435	ASP	110	GIII	тэр	440	пец	шец	GIII	пια	445	Gru	пса	0111
	Len	Lvs		Asn	His	Pro	Glu		Ser	Gln	Len	Phe		Lvs	Len	Leu
286		450					455					460		-1-		
	Gln		Met	Thr	Asp	Leu		Gln	Ile	Val	Thr		His	Val	Gln	Leu
	465	-1-			P	470	3				475					480
		Gln	Val	Ile	Lys		Thr	Glu	Thr	Asp	Met	Ser	Leu	His	Pro	
294					485	-				490					495	
297	Leu	Gln	Glu	Ile	Tyr	Lys	Asp	Leu	Tyr							
							_									

RAW SEQUENCE LISTING DATE: 07/30/2004 PATENT APPLICATION: US/10/502,279 TIME: 09:32:53

	298				500					505								
	301	<210	0> S1	EQ II	ои с	: 3												
	302	302 <211> LENGTH: 987													•			
	303 <212> TYPE: DNA 304 <213> ORGANISM: Homo sapiens																	
	306	<220)> F	EATUI	RE:													
•	307	<223	1> N	AME/I	KEY:	CDS												
	308	<222	2> L (CAT:	ON:	(1)	(98	37)										
	309	<223	3 > O'	THER	INF	ORMA'	rion	:										
W>	311	<400	0> 3															
	312	atg	gcg	gcg	ggg	ata	gtg	gct	tct	cgc	aga	ctc	cgc	gac	cta	ctg	acc	48
									Ser									
	314	1				5					10					15		
	316	cgg	cga	ctg	aca	ggc	tcc	aac	tac	ccg	gga	ctc	agt	att	agc	ctt	cgc	96
	317	Arg	Arg	Leu	Thr	Gly	Ser	Asn	Tyr	Pro	Gly	Leu	Ser	Ile	Ser	Leu	Arg	
	318				20					25					30		-	
	320	ctc	act	ggc	tcc	tct	gca	caa	gag	gcg	gct	tcc	gga	gta	gcc	ctc	ggt	144
									Glu									
	322			35					40				_	45			_	
	324	gaa	gcc	cca	gac	cac	agc	tat	gag	tcc	ctt	cgt	gtg	acg	tct	gcg	cag	192
	325	Glu	Ala	Pro	Asp	His	Ser	Tyr	Glu	Ser	Leu	Arg	Val	Thr	Ser	Ala	Gln	
	326		50					55					60					
	328	aaa	cat	gtt	ctg	cat	gtc	cag	ctc	aac	cgg	ccc	aac	aag	agg	aat	gcc	240
	329	Lys	His	Val	Leu	His	Val	Gln	Leu	Asn	Arg	Pro	Asn	Lys	Arg	Asn	Ala	
	330	65					70					75					80	
	332	atg	aac	aag	gtc	ttc	tgg	aga	gag	atg	gta	gag	tgc	ttc	aac	aag	att	288
	333	Met	Asn	Lys	Val	Phe	Trp	Arg	Glu	Met	Val	Glu	Cys	Phe	Asn	Lys	Ile	
	334					85					90					95		
	336	tcg	aga	gac	gct	gac	tgt	cgg	gcg	gtg	gtg	atc	tct	ggt	gca	gga	aaa	336
	337	Ser	Arg	Asp	Ala	Asp	Cys	Arg	Ala	Val	Val	Ile	Ser	Gly	Ala	Gly	Lys	
	338				100					105					110			
	340	atg	ttc	act	gca	ggt	att	gac	ctg	atg	gac	atg	gct	tcg	gac	atc	ctg	384
	341	Met	Phe	Thr	Ala	Gly	Ile	Asp	Leu	Met	Asp	Met	Ala	Ser	Asp	Ile	Leu	
	342			115					120					125				
									gcc									432
	345	Gln		Lys	Gly	Asp	Asp		Ala	Arg	Ile	Ser	Trp	Tyr	Leu	Arg	Asp	
	346		130					135					140					
									acc									480
			Ile	Thr	Arg	\mathtt{Tyr}		Glu	Thr	Phe	Asn	Val	Ile	Glu	Arg	Cys	Pro	
	350						150					155					160	
									cat									528
		Lys	Pro	Val	Ile		Ala	Val	His	Gly	Gly	Cys	Ile	Gly	Gly		Val	
	354					165					170					175		
									atc									576
		Asp	Leu	Val		Ala	Cys	Asp	Ile	Arg	Tyr	Cys	Ala	Gln		Ala	Phe	
	358				180					185					190			
	360	ttc	cag	gtg	aag	gaġ	gtg	gac	gtg	ggt	ttg	gct	gcc	gat	gta	gga	aca	624.
		Phe	Gln		Lys	Glu	Val	Asp	Val	Gly	Leu	Ala	Ala	Asp	Val	Gly	Thr	
	362			195					200					205				

VERIFICATION SUMMARY

DATE: 07/30/2004 TIME: 09:32:54

PATENT APPLICATION: US/10/502,279

Input Set : A:\Q82704 Sequence Listing.txt
Output Set: N:\CRF4\07302004\J502279.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:36 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:33 L:311 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:309 L:498 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:496 L:757 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:755 L:970 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16,Line#:968 L:1219 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:26,Line#:1217